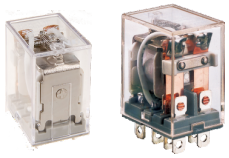
JQX-13F



27.4(43)×21.5×35.7

R50126378 c UL us E169380

Features

- Small size, light weight, heavy switching power.
- Optional mounting ways. With LED and with test button available.
- Firm structure, strong anti-shock & anti-vibration.
- Suitable for automatic control, telecommunication equipment, household electrical appliances and machinery electrical facilities.

Ordering Information

JQX-13F 2C a DC12V 1 L
1 2 3 4 5 6

1 Part number: JQX-13F
2 Contact arrangement: 2A:2A; 2B:2B;
1C:1C; 2C:2C
3 Terminal: a:plug in type; b:PCB type
4 Coil rated voltage(V): AC: 6,12,24,36,48,110,120,220,240
DC: 6,12,24,36,48,110

5 Cover: 1:1Mode; 2:2 Mode
6 Coil transient suppression: L:with LED
D:with diode
LD:with LED & diode
NIL:standard

Contact Data

Contact Material			$AgSnO_2$ AgCdO	
Contact Arrangement			1C (SPDT(B-M))	2A (DPSTNO) 2B (DPSTNC) 2C (DPDT(B-M))
Contact Rating	Resistive		15A, 20A/277VAC,28VDC	10A/277VAC; 12A/250VAC,28VDC
	Motor Load		⅓HP 120VAC, 240VAC	⅓HP 120VAC, 240VAC; ½HP 125VAC
	Coil power	DC	0. 9W	
		AC	1.2VA	
Max. Switching Voltage			30VDC 300VAC	
Max. Switching Power			560W 5540VA	Max. Switching Current:20A
Contact Resistance			≤50mΩ	Item 4.12 of IEC 61810-7
Electrical Endurance			1×10^5	Item 4.30 of IEC 61810-7
Mechanical Endurance			2×10^7	Item 4.31 of IEC 61810-7

Coil Parameter(DC)

Coil voltage VDC		Coil resistance Ω ± 10%	Pick-up voltage VDC (max) (80% of rated voltage)	Drop-out voltage VDC (min) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
Rated	Max.						
6	6.6	40	4.8	0.6	0.9	≤25	≤25
12	13.2	160	9.6	1.2			
24	26.4	640/650	19.2	2.4			
36	39.6	1440	28.8	3.6			
48	52.8	2600	38.4	4.8			
110	121	11000	88.0	11.0			

Notes: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2.Pick-up and drop-out voltage are for test purposes only and are not to be used as design criteria.

Coil Parameter(AC)

Coil voltage VAC		Coil resistance Ω ± 10%	Rated current mA	Pick-up voltage VAC(max) (80%of rated voltage)	Release voltage VAC(min) (30%of rated voltage)	Coil power VA
Rated	Max.					
6	6.6	11.5	183	4.8	1.8	1.2
12	13.2	46	91	9.6	3.6	
24	26.4	184	46	19.2	7.2	
36	39.6	320	33	28.8	10.8	
48	52.8	735	24	38.4	14.4	
110	121	3900	11	88.0	33	
120	132	4550	9.8	96.0	36	
220	242	14400	5.5	176	66	
240	312	19000	4.2	192	72	

Notes: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Characteristics

Insulation Resistance[1)]	1000MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength[1)] Between Open Contacts Between Contact and Coil	 1000VAC 1min 1500VAC 1min	 Item 4.9 of IEC 61810-7
Shock Resistance	98m/s^2 11ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~55Hz Double amplitude 1.5mm	Item 4.28 of IEC 61810-7
Terminals Strength	8N 4N(PC type)	Item 4.24 of IEC 61810-7
Ambient Temperature	-40℃~70℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	37g	Item 4.7 of IEC 61810-7

Note: 1). When testing, coil terminals should be connected , if LED is installed in relay .

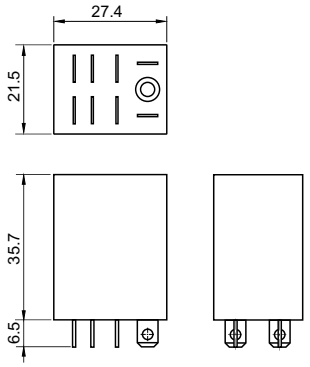
Safety Approvals

Safety approval	UL&CUR	TüV	CQC
Load	1C: 20A/277VAC, 28VDC ⅓HP120VAC, 240VAC 2A, 2B, 2C: 10A/277VAC; 12A/250VAC, 28VDC ½HP 125VAC ⅓HP 120VAC, 240VAC	10A/277VAC, 28VDC	10A/277VAC 10A/220VAC

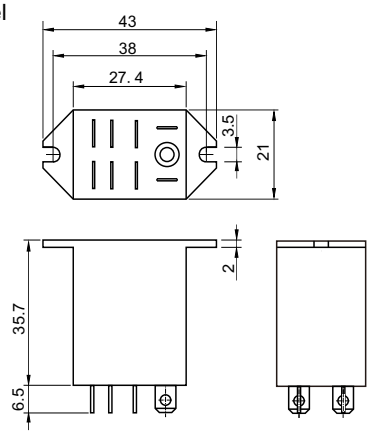
Dimensions

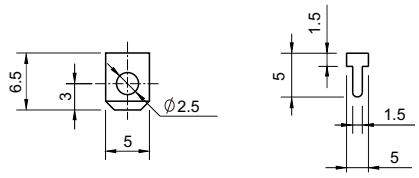
mm

1 model



2 model



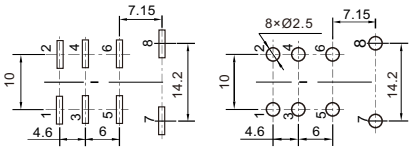


a Plug in type

b PCB type

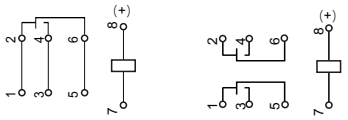
Leading end shape diagram

Dimensions



Plug in type PCB type

Mounting (Bottom view)

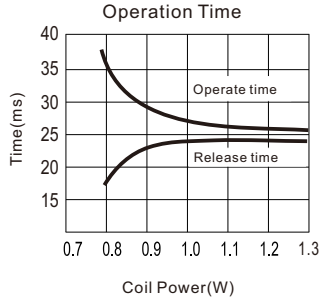


Wiring diagram (Bottom view)

Remark: In case of no tolerance shown in outline dimension: outline dimension≤1mm,tolerance should be ±0.2mm ; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

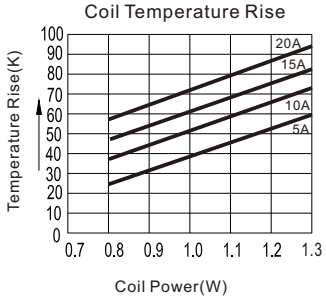
Reference Data

Operation Time



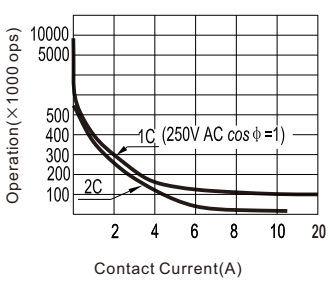
Coil Power(W)

Coil Temperature Rise



Coil Power(W)

Endurance Curve



Contact Current(A)